Customer No.: 31561

Docket No.: 12919-US-PA Application No.: 10/709,467

**REMARKS** 

Present Status of the Application

The final Office action rejected claims 1-4, 6-8, 11-14, and 19 under 35 U.S.C. 103(a)

as being unpatentable over Kang et al (US 2002/0063666 A1) in view of the instant

Application's Admitted Prior Art (AAPA).

Applicant has amended claim 1 by incorporating dependent claim 4 and then

canceling claim 4. The amendment is fully supported by the original specification of the

present application without adding any new matter. Applicant has canceled claims 12-16

and claims 19-20. After entry of the foregoing amendments, claims 1-3, 6-8, and 11 remain

pending in the present application, and reconsideration of those claims is respectfully

requested.

Discussion of the claim rejections under 35 USC 103(a)

The Office action rejected claims 1-4, 6-8, 11-14, and 19 under 35 U.S.C. 103(a) as

being unpatentable over Kang in view of AAPA.

In response thereto, Applicant has amended claim 1 to more clearly define the

present application, upon which Applicant hereby traverses these rejections.

Specifically, Applicant respectfully submits that the present application, as set forth

in claims 1-3, 6-8, and 11, is novel, non-obvious and patentable over Kang, AAPA, or

any other cited references, taken alone or in combination. Therefore, Applicant

respectfully submits that claims 1-3, 6-8, and 11 should be allowed.

With respect to the currently amended claim 1, it is recited in entirety below:

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A color management structure for a panel display, comprising:

a display array unit;

a plurality of gate drivers;

a plurality of source drivers, said plurality of gate drivers and said

plurality of source drivers driving said display array unit to display an image;

and

a timing sequence control unit, said timing sequence control unit

outputting a plurality of signals to said plurality of gate drivers and said

plurality of source drivers to drive said display array unit, said timing

sequence control unit outputting a clock signal and a digital color

management data to said plurality of source drivers, said timing sequence

control unit comprising:

a timing controller receiving a system input and providing said clock

signal; and

a color management control block, coupled to said timing controller,

outputting said digital color management data and said clock signal to

said plurality of source drivers, said digital color management data being

adjustable.

(Emphasis added)

The currently amended claim 1, which incorporates original claim 4, has at least

three features not found in any of the cited references: (1) the timing sequence control

unit comprising the timing controller and the color management control block; (2)

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the timing controller providing the clock signal for the source drivers; and (3) the

color management control block outputting the digital color management data and

the clock signal to the source drivers.

1. Timing sequence control unit.

On page 7 of the final Office action, the Examiner states that the timing/gamma

controller 142 in Fig.14 of Kang is equivalent to the timing sequence control unit of the

original claim 1 of the present application. On page 9 of the final Office action, the

Examiner states that the gamma controller 91 in Fig.9 of Kang is equivalent to not only the

timing controller but also the color management control block of the original claim 4 of

the present application.

However, in Kang, the gamma controller 91 in Fig.9 is not a constituent element of

the timing/gamma controller 142 in Fig.14. Please refer to Kang paragraph [0051], and

Kang Figs. 8 and 9. Rather than being a constituent element of the timing/gamma controller

142 in Fig.14, the gamma controller 91 in Fig. 9 is in fact a constituent element of the

multi-mode gamma voltage generator 84 in Fig. 8. According to Fig. 8, the multi-mode

gamma voltage generator 84 and the controller 82 are two distinct elements that have no

interaction. According to Kang paragraphs [0050] and [0071], the controller 82 in Fig. 8 is

distinct from the timing/gamma controller 142 in Fig. 14. Therefore, unlike Applicant's

currently amended claim 1, Kang fails to disclose that the timing sequence control unit

comprises the timing controller and the color management control block.

2. Timing controller.

On page 7 of the final Office action, the Examiner states that the column driver 143

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in Fig. 14 of Kang is equivalent to the source drivers of the original claim 1 of the present

application. But this is the third embodiment of Kang, paragraph [0069], an LCD

comprising a timing/gamma controller. Then on page 9 of the final Office action, the

Examiner states that the gamma controller 91 in Fig. 9 of Kang is equivalent to the timing

controller of the original claim 4 of the present application, but the gamma controller of

Fig. 9 is from the first embodiment of Kang, paragraph [0048], which comprises a multi-

mode gamma voltage generator.

Currently amended claim 1 now includes claim 4, and so the timing controller of

previously dependent claim 4 outputs (as it always has) to the same plurality of source

drivers as claim 1. The examiner has the multi-mode gamma voltage generator from Fig.

9 serving as the timing/gamma controller from Fig. 14, but they are each from distinct

embodiments, and not equivalent to Applicant's timing controller.

On page 7 of the final Office action, the Examiner first states that the clock in Fig.14

of Kang is equivalent to the clock signal of the original claim 1 of the present application.

Then, on page 9 of the final Office action, the Examiner contradictorily states that the I<sup>2</sup>C

clock in Fig.9 of Kang is equivalent to the clock signal of the original claims 1 and 4 of

the present application. Because the I<sup>2</sup>C clock in Fig.9 and the clock in Fig.14 are two

distinct signals, they can not be equivalent to the clock signal of the original claims 1 and

4 of the present application at the same time.

The I<sup>2</sup>C clock in Fig.9 of Kang is not provided to the column driver 143 in Fig.14,

they are distinct and completely different embodiments, and the clock in Fig.14 is not

provided by the gamma controller 91 in Fig.9. The gamma controller 91 in Fig.9 does not

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provide any signal for the column driver 143 in Fig.14. Therefore, unlike the currently

amended claim 1, Kang fails to disclose that the timing controller provides the clock signal

for the source drivers.

On page 7 of the final Office action, the Examiner states that the column driver 143

in Fig.14 of Kang is equivalent to the source drivers of the original claim 1 of the present

application. But again the gamma controller 91 in Fig.9 does not output any signal to the

column driver 143 in Fig.14. In addition, the I<sup>2</sup>C clock in Fig.9 is not output to the column

driver 143 in Fig.14. Therefore, unlike the currently amended claim 1, Kang fails to

disclose that the timing controller provides the clock signal for the source drivers.

3. Color management control block.

Kang also fails to disclose that the color management control block outputs the

digital color management data and the clock signal to the source drivers.

On page 9 of the final Office action, the Examiner states that the gamma controller

91 in Fig.9 of Kang is equivalent to the color management control block of the original

claim 4 of the present application. Previously, on page 7 of the final Office action, the

Examiner stated that either the  $\gamma$  data in Fig.14 or the I<sup>2</sup>C data in Fig.9 of Kang is

equivalent to the digital color management data of the original claim 1 of the present

application, but because the I<sup>2</sup>C data in Fig.9 and the  $\gamma$  data in Fig.14 are two distinct

signals, they cannot be equivalent to the digital color management data of the original

claim 1 of the present application at the same time. Neither is the clock in Fig.14 output

by the gamma controller 91 in Fig.9, nor is the  $\gamma$  data in Fig.14 output by the gamma

controller 91 in Fig.9.

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In sum, the currently amended claim 1 has at least three unique features, (1) a timing

sequence control unit comprising: (2) a timing controller providing a clock signal,

and (3) a color management control block outputting digital color management data

and said clock signal to a plurality of source drivers, not found in any of the cited

references, taken alone or in combination. Therefore, the currently amended claim 1 should

be novel, non-obvious, and hence patentable. Accordingly, the currently amended claim 1

should be allowed.

Being dependent upon the allowable independent claim 1, the dependent claims 2-3,

6-8, and 11 should also be allowed.

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## **CONCLUSION**

For at least the foregoing reasons, it is believed that all the pending claims 1-3, 6-8, and 11 of the present application are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

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